

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/08631

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12P13/04 C12P7/04 C12P41/00 C12P13/22 C12P13/06
 C12N15/53 C12N9/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12P C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ, EMBASE, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 46363 A (ARISTIDOU ARISTOS ; VALTION TEKNILLINEN (FI); RICHARD PETER (FI); T) 16 September 1999 (1999-09-16) examples 6,7,10,12-15,18,24 ---	1-10
X	US 2002/042110 A1 (MITSUHASHI KAZUYA ET AL) 11 April 2002 (2002-04-11) paragraph '0162! ---	1-10
X	EP 0 385 415 A (MITSUBISHI PETROCHEMICAL CO) 5 September 1990 (1990-09-05) page 10; example 6 --- -/-	1-8

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

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E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

12 December 2003

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18/03/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE WPI Section Ch, Week 199001 Derwent Publications Ltd., London, GB; Class B05, AN 1990-003179 XP002264717 -& JP 01 285193 A (DAICEL CHEM IND LTD), 16 November 1989 (1989-11-16) page 156 abstract</p> <p>----</p>	1-8
X	<p>DATABASE WPI Section Ch, Week 198630 Derwent Publications Ltd., London, GB; Class B05, AN 1986-194622 XP002264718 -& JP 61 128895 A (TAKARA SHUZO CO LTD), 16 June 1986 (1986-06-16) abstract</p> <p>----</p>	1-8
X	<p>GU K F ET AL: "PRODUCTION OF ESSENTIAL L BRANCHED-CHAIN AMINO ACIDS IN BIOREACTORS CONTAINING ARTIFICIAL CELLS IMMOBILIZED MULTIENZYME SYSTEMS AND DEXTRAN-NAD" BIOTECHNOLOGY AND BIOENGINEERING, vol. 36, no. 3, 1990, pages 263-269, XP001156578 ISSN: 0006-3592 page 266; figures 2,7</p> <p>----</p>	1-8
X	<p>SUYE S: "COENZYME REGENERATION WITH MALIC ENZYME REACTION SYSTEM" RECENT RESEARCH DEVELOPMENTS IN FERMENTATION AND BIOENGINEERING, XX, XX, vol. 1, no. 1, 1998, pages 55-64, XP000982890 figure 5; table 1</p> <p>----</p>	1-8
X	<p>BOMMARIUS A S ET AL: "BIOCATALYSIS TO AMINO ACID-BASED CHIRAL PHARMACEUTICAL-EXAMPLES AND PERSPECTIVES" JOURNAL OF MOLECULAR CATALYSIS. B, ENZYMATIC, ELSEVIER, AMSTERDAM,, NL, vol. 5, 1998, pages 1-11, XP002929513 ISSN: 1381-1177 figure 5</p> <p>-----</p>	1-8

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Information on patent family members

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